

INTENSIVE BIOSURVEY: MACROINVERTEBRATE ASSESSMENT

Stream Name: _____

County: _____ State: _____

Investigators: _____

Site (description): _____

Latitude: _____ Longitude: _____

Site or Map Number: _____

Date: _____ Time: _____

Weather in past 24 hours:

- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent)
- Overcast
- Clear/Sunny

Weather now:

- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent)
- Overcast
- Clear/Sunny

Type of Sampling *(check one)*

Rocky bottom _____ Muddy bottom _____

Muddy Bottom Sampling Only: Record the number of jabs taken in each habitat type.

Vegetated bank margin _____

Snags and logs _____

Aquatic vegetation beds _____

Silt/sand/gravel substrate _____

MACROINVERTEBRATE ASSESSMENT

ORGANISM (Order/Family)	Tolerance (0-10) range	Functional feeding group	No. of Individuals
T = Caddisflies (Trichoptera)			
Hydropsychidae	4	FC	_____
Philopotamidae	3	FC	_____
Glossosomatidae	0	SC	_____
Rhyacophilidae	0	P	_____
Hydroptilidae	4	PI	_____
Limnephilidae	4	SH	_____
Lepidostomatidae	1	SH	_____
Polycentropodidae	6	FC	_____
Psychomyiidae	2	CG	_____
E = Mayflies (Ephemeroptera)			
Heptageniidae	4	SC	_____
Ephemerellidae	1	SC	_____
Baetidae	4	CG	_____
Oligoneuriidae	2		_____
Leptophlebiidae	2	CG	_____
Ephemeridae	4	CG	_____
Potamanthidae	4		_____
Tricorythidae	5	CG	_____
Siphonuridae	7	CG	_____
P = Stoneflies (Plecoptera)			
Perlidae	1	P	_____
Perlodidae	2	P	_____
Peltoperlidae	0	SH	_____
Capniidae	1	SH	_____
Leuctridae	0	SH	_____
Nemouridae	2	SH	_____
Taeniopterygidae	2	SH	_____
Chloroperlidae	1	SH	_____
Pteronarcyidae	0	SH	_____
True Flies (Diptera)			
Chironomidae (Midges)		CG	_____
Simuliidae (Black Flies)	6	FC	_____
Tipuliidae (Crane Flies)	3	SH	_____
Empididae (Aquatic Dance Flies)	6	P	_____
Athericidae (Watersnipe Flies)	2		_____
Ceratopogonidae (Biting Midges)	5	P	_____
Dolichopodidae (Longlegged Flies)	5	P	_____
Tabnidae (Horse/Deer Flies)	7	PI	_____
Tanyderidae (Primitive Crane Flies)			_____
Stratiomyidae (Soldier Flies)		CG	_____

Megaloptera

Corydalidae (Dobsonflies/Fishflies)	0	P	_____
Slalidae (Alderflies)	4	P	_____
Water Beetles (Coleoptera)			
Elmidae	5	CG	_____
Psephenidae	4	SC	_____
Ptilodactylidae	2	SH	_____
Gyrinidae	6	P	_____
Haliplidae	5		_____
Hydrophilidae	5	P	_____
Dytiscidae	5	P	_____
Dragonflies & Damselflies (Odonata)			
Gomphidae (Clubtails)	1	P	_____
Aeshnidae (Damers)	3	P	_____
Calopterygidae (BW-damselflies)	5	P	_____
Coenagrionidae (NW-damselflies)	9	P	_____
Waterbugs (Hemiptera)			
Crustacea:			
Sowbugs (Isopoda) Asellidae	6	SH	_____
Scuds (Amphipoda) Gammaridae	4	CG	_____
Crayfish (Decapoda) Astacidae	7	CG	_____
P. ANNELIDA			
Earthworms, C. Oligochaeta	8	P	_____
Leeches, C. Hirudinea	8	P	_____
P. MOLLUSCA, C. Gastropoda (Snails)	7	SC	_____
P. MOLLUSCA, C. Bivalvia (Clams & Mussels)	3	FC	_____
Other Animals (Invertebrates Only)			
TOTAL ORGANISMS =			_____

NOTE: This family taxon list is characteristic of the Northern Piedmont ecoregion of Maryland and Pennsylvania.

TOLERANCE VALUE RANGE

Sensitive	Tolerant
0	10

FUNCTIONAL FEEDING GROUPS

SH = Shredder	SC = Scraper	CG = Collector/Gatherer
P = Predator	FC = Filtering Collector	PI = Piercer